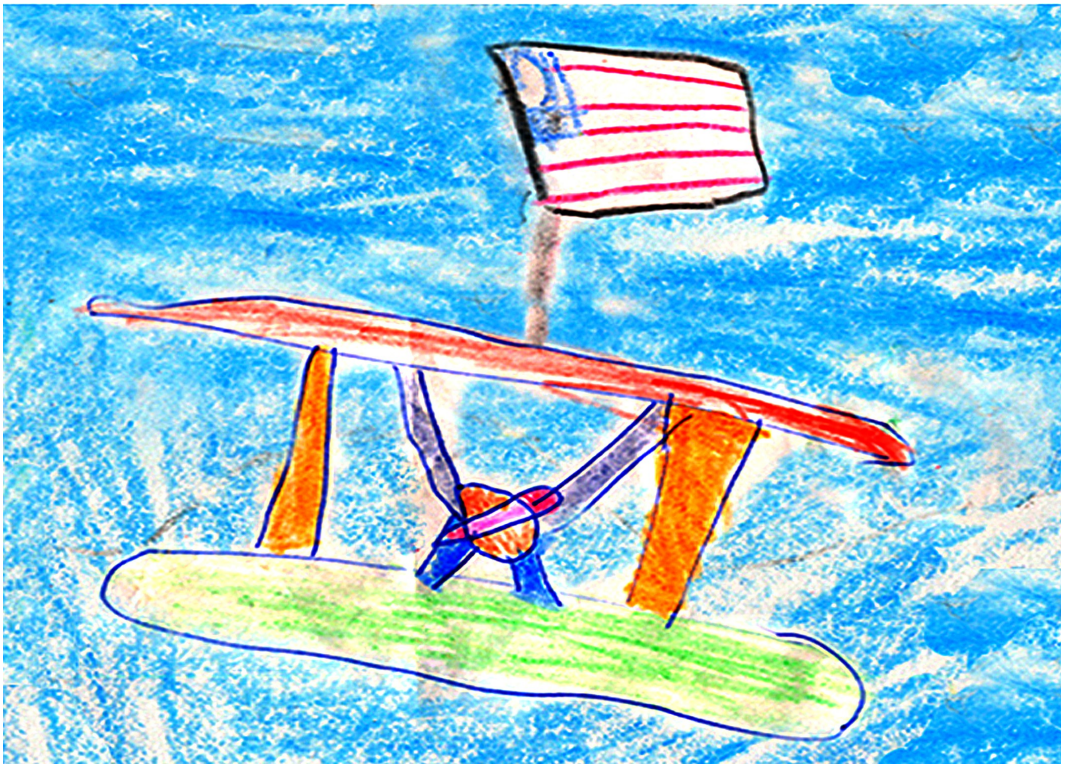
WRIGHT BROTHERS
First Flight
Kity Hawk 1903
Mark J. Wagner

Wright Brothers
First Flight



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Marek "Mark" J. Wagner

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“Human desire to fly emebedded in desire to return to the very source and origin of life”.

“Flying, deep rooted destiny, where past and future blend, unify as one”.

“Long before flying machine was invented, human Spirit, human mind
was scouting the Universe and beyond in search for the roots, and meaning of life”.

ORVILLE WRIGHT
1871-1948

WILBUR WRIGHT
1867-1912

First Flight:
December 17, 1903,
10:35 a.m.
Kity Hawk, North Carolina,
Distance: 120 feet, 120 seconds.

QUOTES

Wilbur Wright

"I have some theories as to the proper construction of a flying machine".

"There is no sport equal to that which aviators enjoy, while being carried through the air on great winds".

"More than anything else, the sensation is one of perfect peace mingled with an excitement".

"It is possible to fly without motor, but not without knowledge and skill".

Orville Wright

"We could not understand that there was anything about the bird that could not be on a larger scale".

"The desire to fly is an idea handed down to us by our ancestors…".

"If bird can glide for long periods of time, then …, why can't I?".

"Were were lucky enough to grow up in an environment, where there was always much encouragement to children, to pursue intellectual interests, to investigate whatever crossed curiosity".

Fastest level flying bird:
Red Breasted Merganser,
100 mph (161 km/h).

. . .

The highest flying bird:
Rappel's Grafton Vulture,
7 miles high.

. . .

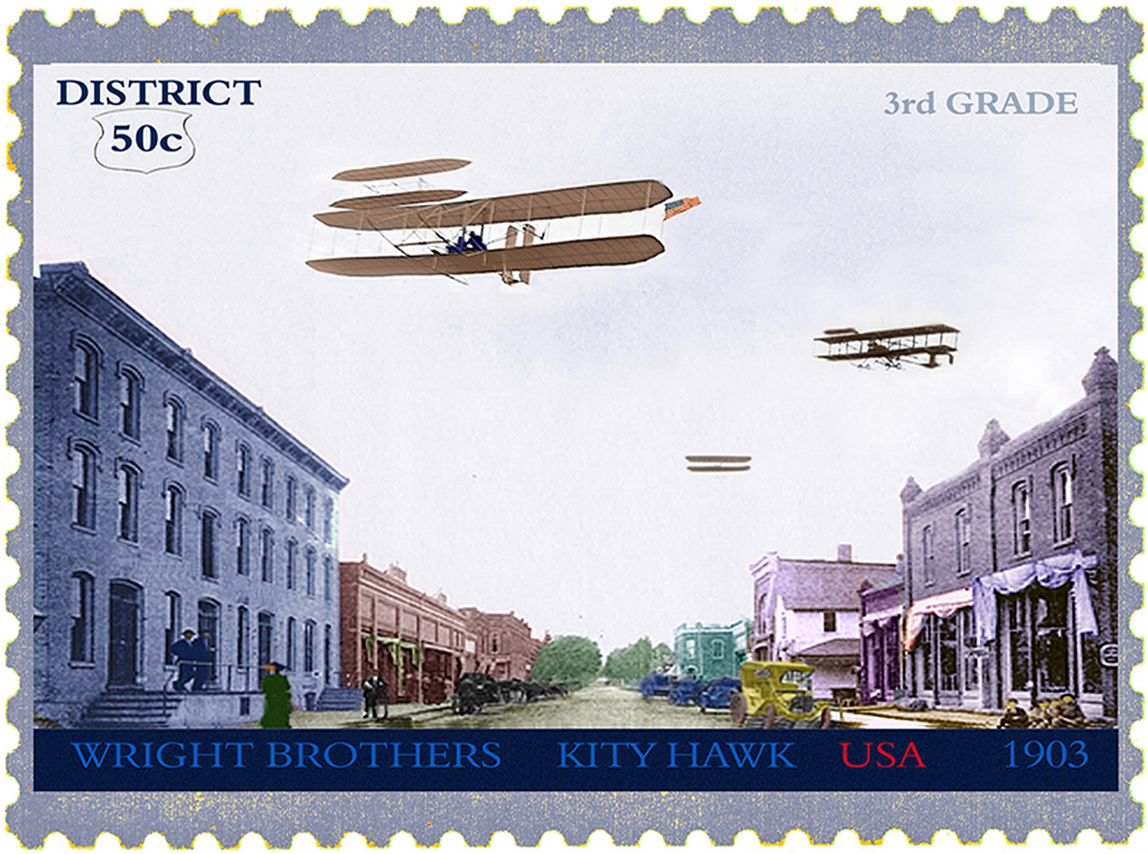
Fastest flying bird:
Diving Peregrine Falcon,
117 (188 km/h).

. . .

Greatest wingspan:
Wandering Albatross,
12ft. (up to 3.53 m).

. . .

Most aerial bird:
Sooty Terns,
3-10 years without landing.



“AMERICANA”

FIRST FLIGHT

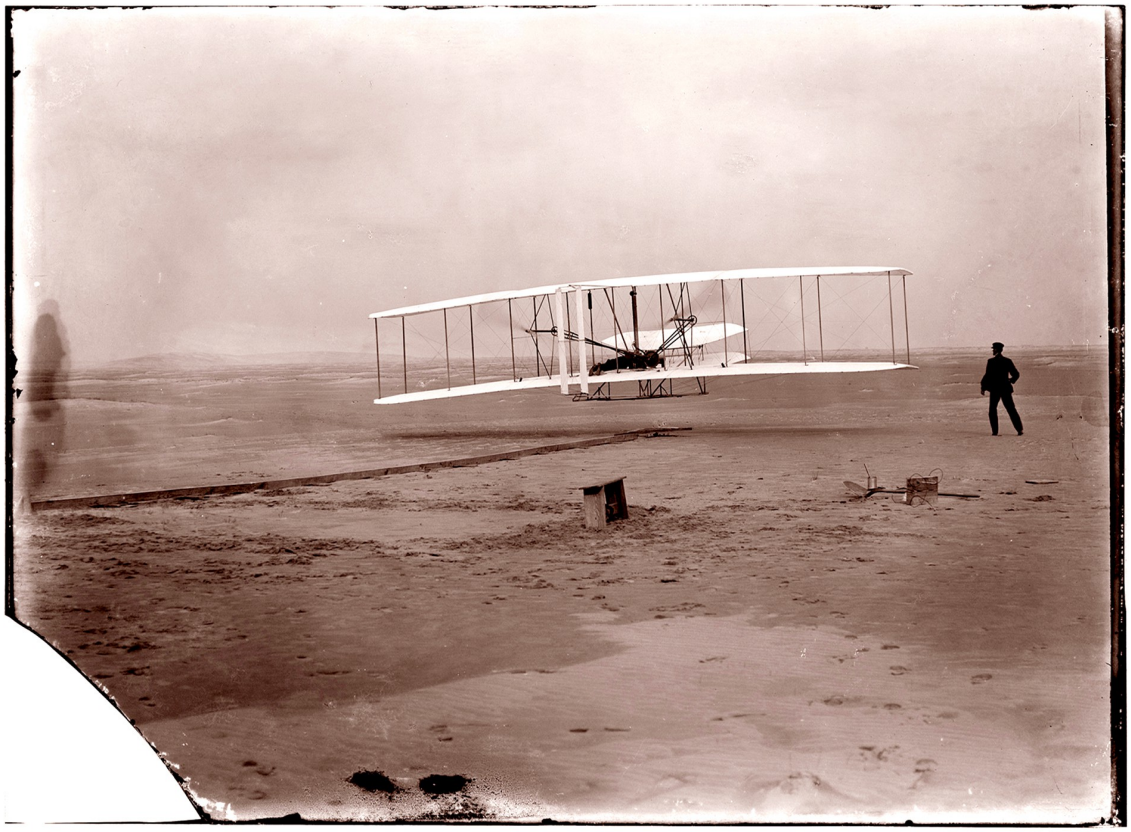
. . .

Wooden shed surrounded by dunes,
Inspired men, frivolous sweat,
Ancient vision,
Phantom dream,
Ascend,

Nurture light,
Recite, humble phrases of time,
Curious zephyrs, naked winds, rigid muscles,
Divine creation, timeless nutrient, science,
Earth, sanctuary, celestial sequence,
Attach motor, kinetic riddle,
Swell bi-plane appeared,
Pegasus, constructed on Earth,

Blessed hills of North Carolina,
Wisdom, courage, character,
American spirit is born, again,

Kity Hawk, 1903,
Wilbur, Orville,
Flew the machine,
120 seconds, 120 feet,
Wings, lighter than air,
Conquered horizons, gravity, Earth,



"First Flight"
Kity Hawk, North Carolina, 1903.

Childhood dreams,
Guardian angel,
Smiling with joy,
Proud eagle, majestic,
Splendor, affection,
Made of wood,
Cloth, piano wire,
Passion,

Flickering waves, spectacle,
Wild ride among friends,
Prominent, new human race,

Dwell, sweet dreams,
Among brothers, siblings, parents,
Leaping vision, imagination,
Drawing dreams by candles,
Yet, Christmas tree,

Machine emerged,
Alive,
Engine speak!
Tack, tack, tack, tack, tack,

Before the flight,
Bicycles mingling in ambient light,
In Dayton,
Wright Cycle Shop,

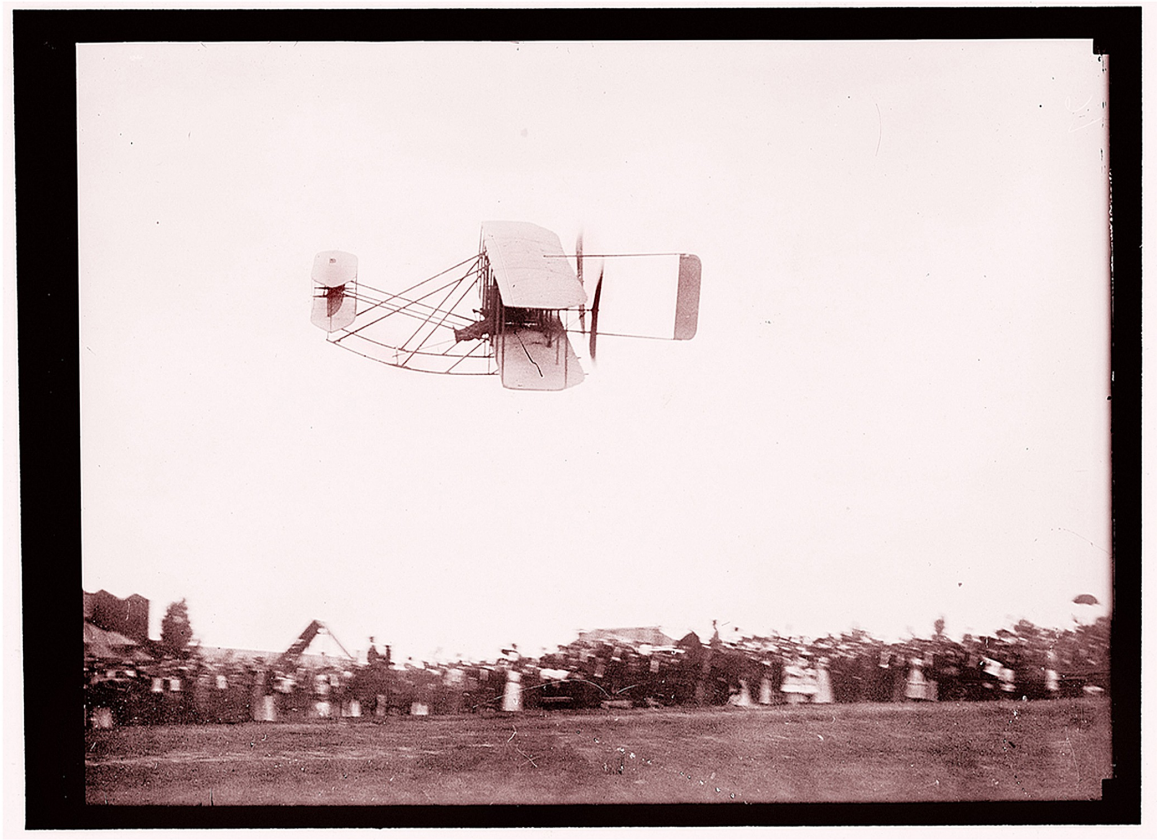
Newspapers, presses, assignments,
“The West Side News”, “ The Midget”,
P.L. Dunbar, weekly reporter,
American poet,

Wright Family Residence

Wrote timeless phrase:
“Sleep, sleep, it is sweet to dream”,
Published by Wilbur, Orville,
Talented family, amazing deeds,

Shine, shine, American mind,
From East, West,
North, South,
Thank you for courage,
Admired, to present time,

Dear friend,
Remember this date,
December 17, 1903,
Kity Hawk, North Carolina,
First flight, 10:35 am.,
12 seconds, 120 feet.



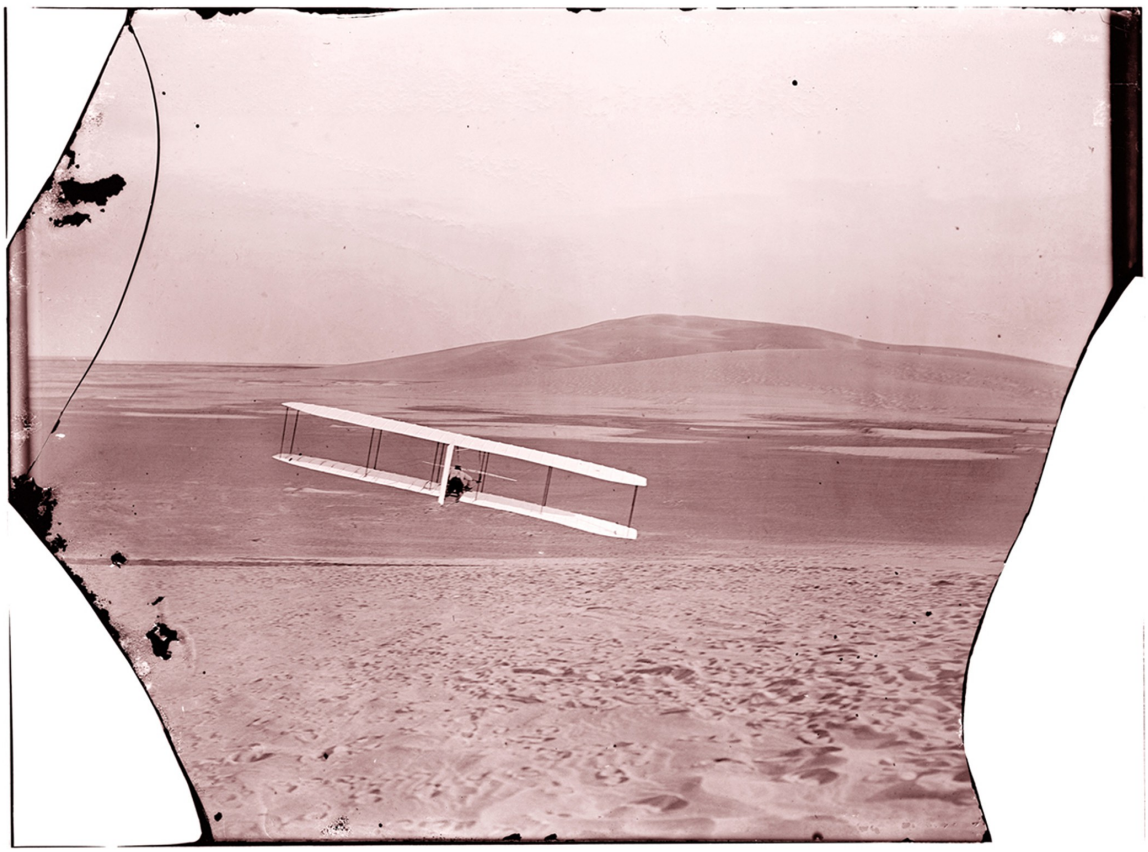
Air Show
Wright Brothers Airplane

No Limits

. . .

How was the flight?
Courageous knights,

"Kind of creepy, chaotic…",
Wilbur and Orville replied,
No limits for science,
Human Spirit, potent mind,



Wright Brothers Glider
Sand Hills, North Carolina

HUMANITY

. . .

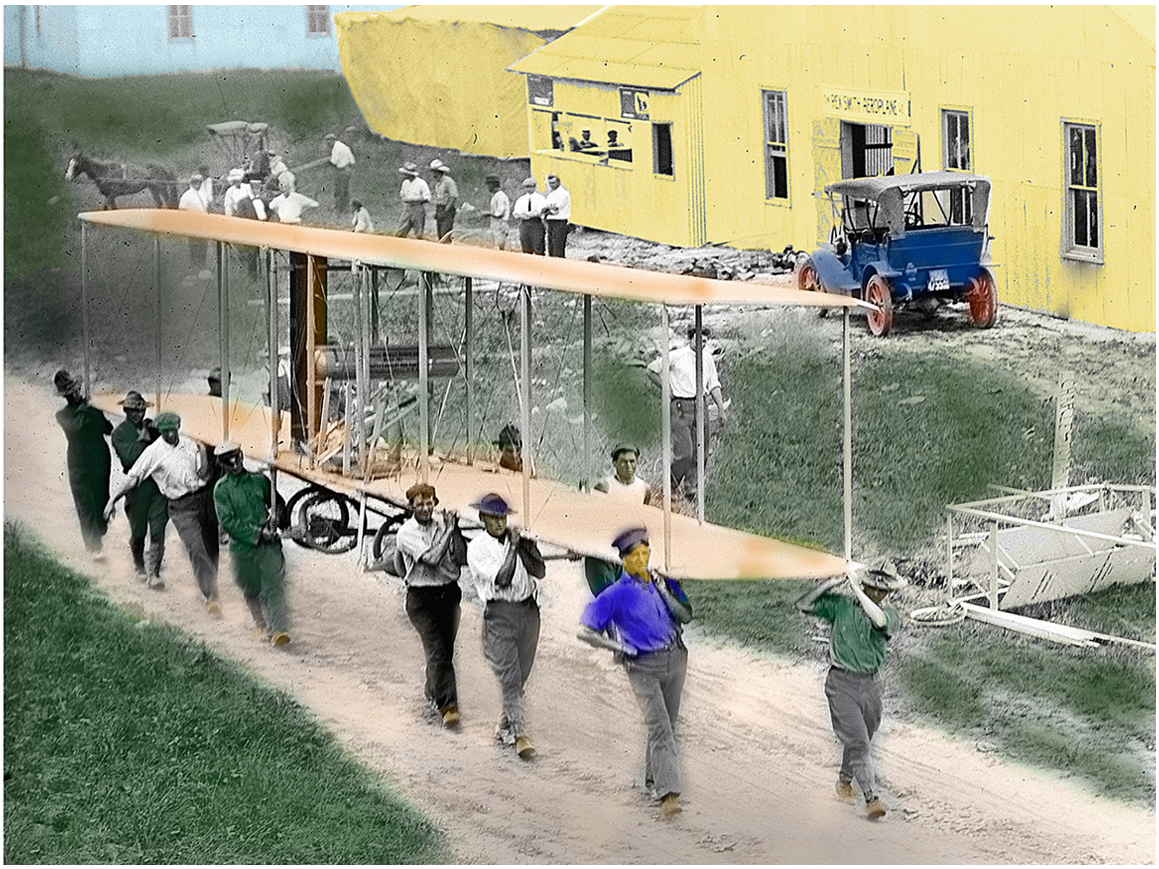
Humanity,
Delightful destiny,
Touch spirits, harmony,
Imagination,
Liberate from gravity,
Kites, vision, wings,
Fly within rhythmic circles of winds.

“Aviation”
Third Grade Students,
School District 50,
Grayslake, Illinois.

STARS

. . .

From dust, laboring light,
Stars are born,
Travel across Universe, sky,
To meet your heart, eyes,
Destiny of Gods.



Wright Airplane
Military Base, USA

TRANQUIL SKIES

. . .

Tranquil skies,
Silent space,
Pioneers, armed
With Spirit, courage,
Shield of Peace.

Wright Brothers
Wooden Shed
Kity Hawk North Carolina

ABOVE THE EARTH

. . .

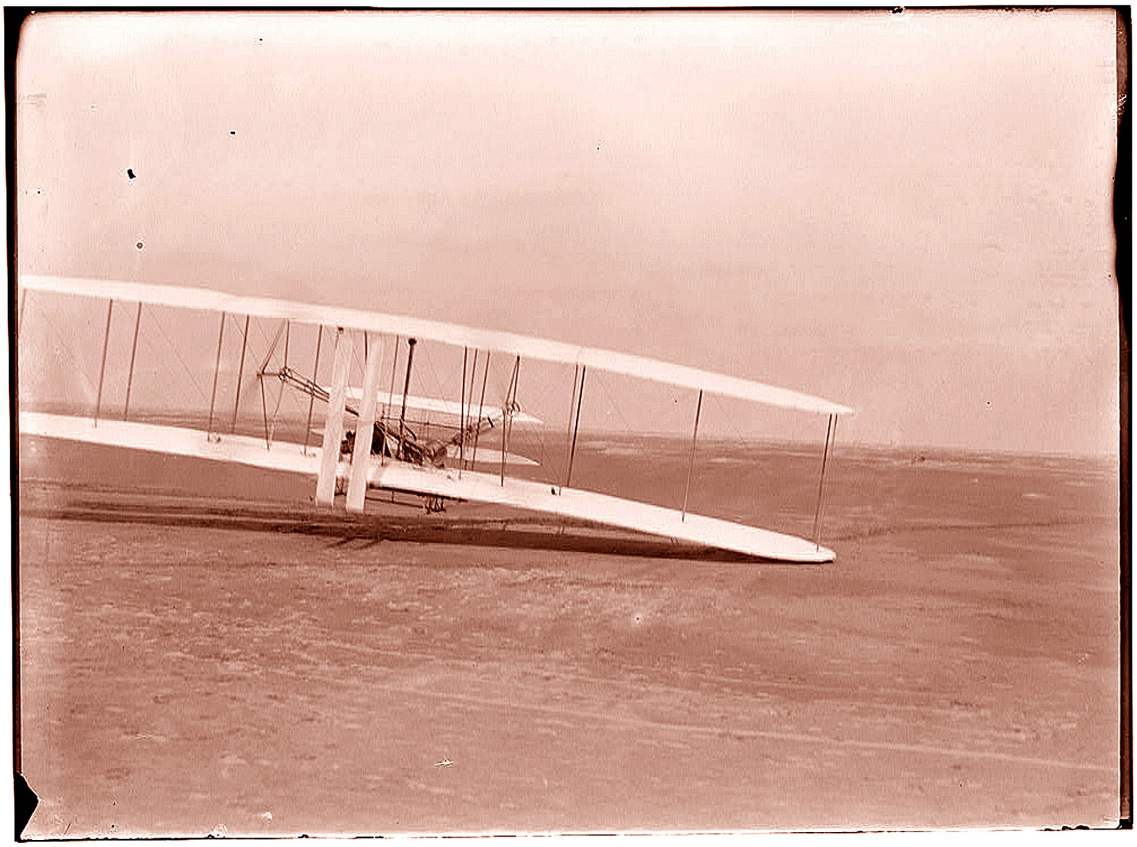
Vibrant will,
Blending Sun, Universe,
Fly, inherited hopes,
Heavenly spirits,
Liberated dreams,

Pioneers, whisper,
Tranquil fame awaits,
Soar to the heights,
Courage, transparent Peace,

Depth, altitudes,
Courtship of nature,
Scouting anticipation,
Enchanting pleasures,
Nurture, heraldic currents,

Paint hearts, awareness,
Open your arms,
Blossoming smiles,
Praise beauty, human adventure,

Ritual flirt,
Creation,
Sanctify life,
Vigorous pulse,
Feel within your veins.



Wright Brothers Airplane
Sand Dunes North Carolina USA

AVIATION

History. World Records.

1. Daedalus and Icarus, Greek (myth).
   According to the legend on Island Crete, Daedalus have build wings from feathers and wax for his son Icarus, to escape from imprisonment.

2. Toy helicopters, ancient China (approx. 3000 years ago).
   First kites.

3. Leonardo da Vinci (1452- 1519).
   Universal man, scientist, artist, visionary, Renaissance genius.
   Sketches of flying machines, parachute, a helicopter and ornitopther to mention just a few.

4. Gustave Truve, French (1870).
   Ornithopter design.

5. Felix du Temple, French (1874).
   Airplane designer.

6. Montgolfier Brothers, French (1783).
   Hot air balloon constructors.

7. Jean-Pierre Blanchard, French (1753-1809).
   Pioneer of ballooning. Crossing the English Channel by the balloon.

8. William Henson, British (1842).
   Henson's aerial steam carriage, patented design.

9. Jean-Marie le Bris, French (1857)
Designer, constructor.
First successful glider, “Le Bris Albatross”.

10. Sir George Cayley, English scientist (1773-1857).
Glider constructor, scientist, inventor.

11. Alexander Mozhaiski, Russia (1881).
Monoplane designer, constructor.

12. Clement Ader, French (1890).
The “Bat Plane”.

13.Octave Chanute, French, USA. Augustus Herring, USA (1896).
Design and construction of biplane glider.

14. George Miller, USA (1890s).
Helicopter design.

15. Horatio Phillips, British (1893).
Multiplane design.

16. Samuel Pierpoint Langley, USA (1896).
Unmanned steam powered “Aerodome no.5” flew over Potomac River.

17. Otto Lilienthal, German (1848-1896).
2000 flights on heavier than air gliders.

18. Gustave Whitehead, USA (1901).
    "Whitehead no.21" airplane design.
19. Wilbur and Orville Wright, USA (December 17, 1903).
    First controllable flight, Kitty Hawk, North Carolina,
    12 seconds, 120 feet.

20. Horacio Phillips, British (1904).
    Designer, researcher. "Philips i Venetian Blind" airplane.

21. Alberto Santos-Dumont, Brazilian (1906).
    Designed and built several airships and airplanes.
    First official successful European flight.

22. Trajan Vuia, Romania (1906).
    Designer, constructor, "Vuia no.1".

23. Gabriel Charles Voisin, French (1906)..
    The world's first airplane factory

24. Samuel Langley, British (1834-1906).
    Airplane constructor.

25. Paul Cornu, French (1907)
    Helicopter designer, constructor.
    First free flight.

26. Von Zeppelin, Germany (1909).
    Constructor of airships, co-founder of first commercial airline.

27. Louis Bleriot, French (1909).
    Crossing the English Channel by monoplane.

28. Eugene Ely, USA (November 14, 1910, January 18, 1911) .
    Successful naval take off.

29. Henri Coanda, Romania (1910)
    Pioneer in jet propulsion design.

30. Henri Fabre, French (1910).
    First airplane to take off from water.

31. Cal Rodgers, USA (1911).
    84 days cross country flight from new York to California.

32. Helen Dutrieu, Belgian (1911).
    World speed record at 50 mph.

33. Glenn Curtis (1878-1930), USA (1911).
    Airplane, sea plane constructor.
    First world's commercial airline (1914).

34. Harriet Quimby, USA (1912).
    First woman to fly across the English Channel.

35. Albert Berry, USA (1912)
    First parachute jump: 1500 feet.

36. Anthony Fokker, German (1917)
    "Fokker dr.1 Triplane".

37. Rocket plane - Opel, Germany 1920-1029).
Jet aeroplane design.

38. John Alcock and Arthur Whitten Brown, British (1919).
Successful crossing of the Atlantic from Canada to Ireland.

39. Airmail, US Post Office, USA (1921).
Seven planes flew from San Francisco to New York.

40. John Macready, Oakley Kelly, USA (1923).
First nonstop flight across the United States: New York to San Diego in 26 hours.

41. Robert H. Goddard, USA (1926).
First flying liquid propelled rocket.

42. Charles Lindbergh, USA (May 20 in 1927).
First solo crossing of the Atlantic:
33 hours, 30 minutes, 29.8 seconds at 100 miles per hour.
Distance: 3590 miles, from St. Louis, USA to Paris, France.

43. "Question Mark". Endurance Record, USA (1929).
"Tri-motor Fokker": 150 hours, 40 minutes, 15 seconds in the air.
Midair refueling from another plane.

44. Amy Johnson, British (1930).
Solo flight from Britain to Australia.

45. Wiley Post, USA (1933).

First solo flight around the world.

46. Amelia Earhart, USA (1932).
First woman to cross the Atlantic.
47. Henri Mignet, French (1935).
Design and construction of first personal aircraft.

48. Hans von Ohain, German (1937).
Jet engine designer, first prototype design.

49. Igor Sikorski, Russia and USA (1889-1972).
"Le Grand", passenger carrying airplane (1913).
Father of modern helicopters. Designer of the world's first successful helicopter (1939).

50. Frank Whittle, British.
Jet engine designer, first prototype in 1941.
First patented turbojet engine (1931).

51. "Messerschmitt Me 163 Komet", German (1941)..
The first rocket-powered airplane.

52. John Northrop, USA (1944).
"Northrop N-1m". Exceptional, innovative design, "flying wing".

53. "V-1", Germany (WWII).
Cruise rocket, jet airplane, missile.

54. "Horten Ho Ix", Germany (WWII).

Turbojet, made of plywood, invisible to radar.

55. ”Yokosuka MXY 7”, Japan (WWII).
Rocket plane.

56. Howard Hughes, USA (1947).
“Hughes H-4 Hercules”, the largest in the world seaplane.

57. Chuck Yeager, USA (Oct. 14, 1947).
“Bell X-1”, breaking the sound barrier.

58. “Sputnik II”, Soviet Union (1957).
Laika, first living creature in space.

59. Yuri Gagarin, Russia (April 12, 1961).
First man in space.

60. Alan Shepard, USA, (May 5., 1961).
First American in space., “Mercury Freedom 7”.

61. John Glenn, USA (Feb.20, 1962)..
First American to orbit the Earth. First successful manual flight in space “Mercury Friendship 7”. Astronauts: Wally Schirra, Alan Shepard, D. Slayton, Gus Grissom, John Glen, Gordon Cooper, Scott Carpenter.

62. Neil Armstrong, USA (July 20, 1969).
“Apollo 11”. First man on the Moon. Astronauts: Neil Armstrong, Michael Collins, Edwin “Buzz” Aldrin.

63. Vertical take off and landing, British (1969).
British Hawker Siddeley, “Harrier”.

64. “TU-144”, Russia (1968), “Concord”, French (1969).
First supersonic commercial airplaine. Visionary, innovative design, “technological miracle”.

65. Boeing “747 Jumbo Jet”, USA (1969).
The world’s most successful jetliner. The first wide body commercial airplane in the world.

66. Apollo-Soyuz, USA and Soviet Union. Joint Space Mission (1975).
On July 17, 1975 the two spacecraft met in space and successfully docked.

67. “Mir” Space Station, Soviet Union (since 1986).
“Mir “was replaced by the International Space Station in 2001 and built by 16 countries: United States, Russia, Canada, European Space Agency and Japan. Space Station is orbiting earth at 17 000 miles per hour.

68. “Lockheed Sr-71”, USA (1950-1060s).
High altitude, “stealth” aircraft design.

69. “Space Shuttle”, USA (1981).
The world’s only reusable spacecraft, orbiter, first time flew to orbit on April 12, 1981. Last mission took place on July 8, 2011.

70. “X-15”, USA (1967).
The fastest plane of all time. Speed record at 4534 mph.

71. Brian Allen, USA (1977).

Human-Powered Craft "Gossamer Albatross".
Crossing the English Channel.

72. Dick Rutan, Jeana Yeager, USA (1986).
Nonstop flight around the world on experimental "Voyager" without refueling.

73. "Breitling" Orbiter (1999).
Bertrand Piccard, Swiss, Brian Jones-British.
First around the world balloon trip.

74. "B-2", USA (1989).
One of the most advanced military airplanes.

75. "Stealth F-117", USA.
Advanced, invisible to radar military airplane.

76. "Helios" NASA, USA (2001).
Ultralight flying wing, powered by solar energy.
Altitude record: 96, 863 ft.

77. "Daedalus", USA (1988).
Ultra light pedal powered aircraft constructed at MIT.
World record in 1988: 75 miles in 3 hours, 54 minutes, distance between Crete, and Santorini.

Glossary

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